

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/051356

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G11B7/09

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EP 0 938 083 A (FUJITSU LIMITED) 25 August 1999 (1999-08-25) page 3, column 4, line 48 - page 8, column 14, line 24; figures	1-4 5-20
X	US 6 285 636 B1 (TAY HIOK-NAM ET AL) 4 September 2001 (2001-09-04) column 5, line 18 - column 10, line 23; figures	1, 3
X	EP 1 087 384 A (PIONEER CORPORATION) 28 March 2001 (2001-03-28) page 4, paragraph 20 - page 6, paragraph 45; figures	1
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

4 April 2005

Date of mailing of the international search report

11/04/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Geoghegan, C

## INTERNATIONAL SEARCH REPORT

Intern

Application No

PCT/IB2004/051356

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 20, 10 July 2001 (2001-07-10) & JP 2001 067687 A (CANON INC), 16 March 2001 (2001-03-16) abstract -----	1-20
P,A	WO 03/088229 A (KONINKLIJKE PHILIPS ELECTRONICS N.V; YAK, AIK, S; WON, PEI, C; LIM, TU) 23 October 2003 (2003-10-23) page 3, line 15 - page 11, line 33; figures -----	1-20

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/051356

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0938083	A	25-08-1999	JP 11238236 A	31-08-1999
			EP 0938083 A2	25-08-1999
			US 6266301 B1	24-07-2001
US 6285636	B1	04-09-2001	NONE	
EP 1087384	A	28-03-2001	JP 2001093170 A	06-04-2001
			CN 1289116 A ,C	28-03-2001
			EP 1087384 A2	28-03-2001
			TW 512332 B	01-12-2002
			US 6563773 B1	13-05-2003
JP 2001067687	A	16-03-2001	NONE	
WO 03088229	A	23-10-2003	AU 2003216638 A1	27-10-2003
			WO 03088229 A1	23-10-2003